



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

MEMORANDUM

Date: November 28, 2005

Subject: Contract Laboratory Program Data Review

From: *Marvelyn Humphrey*, Marvelyn Humphrey, ESAT Regional PO, 6MD-HE

To: V. Malott ,SF-AP

RECEIVED
2005 DEC -5 PM 4:16
AR/OK/TX BRANCH

Site : JONES ROAD GROUND WATER PLUME

Case#: 34837

SDG# : F1WS3

The EPA Region 6 Houston Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

Please note that the quantitation limits for vinyl chloride in samples F1XJ8 and F1WZ1RE were qualified as unusable because of extremely low (<20%) VDMC1 recoveries.

If you have any questions regarding the data review report, please call me at (281) 983-2140.

Attachments: M. El-Feky, Region 6 Data Coordinator
Files (2)



LOCKHEED MARTIN SERVICES GROUP
ESAT REGION 6
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

MEMORANDUM

DATE: November 23, 2005

TO: Marvely Humphrey, ESAT PO, Region 6

FROM: Tom C.H. Chiang, ESAT Program Manager, Region 6 *JCH*

SUBJECT: CLP Data Review

REF: TDF # 6-05-431A ESAT # O-0878
ESAT Contract No. 68-W-01-030

Attached is the data review summary for Case #34837
SDG #F1WS3
Site Jones Road Ground Water Plume

COMMENTS:

I. LEVEL OF DATA REVIEW

Modified full review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

A. Sample F1WZ1 was reanalyzed because more than the contract-allowed number of DMC recoveries were outside the QC limits (OLC03.2, D-41/VOA, 11.4.4). The reanalysis repeated the problem, demonstrating matrix effects. The CCS screener noted in the CCS report that this reanalysis required the CLP PO approval. However, according to the SOW, EPA approval is required only for payment purposes.

B. Hardcopy review detected the following contractually noncompliant items that CCS did not report.

1. Method blank VBLK10 had a bromoform concentration exceeding the contract-allowed limit (OLC03.2, p. D-46/VOA, sec. 12.1.5.7). This ongoing problem caused the bromoform results to be qualified for two samples.
2. The storage blank VHBLK19 and its reanalysis had unacceptable DMC performance (OLC03.2, D-45/VOA, 12.1.5.3 & D-46/VOA, 12.1.6.3). This noncompliance did not affect the sample data usability.

LOCKHEED MARTIN SERVICES GROUP
ESAT REGION 6
10625 FALLSTONE ROAD
HOUSTON, TX 77099

MEMORANDUM

Attached is the data review summary for Case #34837
SDG #F1WS3
Site Jones Road Ground Water Plume

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed was 1,000 for this data package. Some results were qualified for technical problems, and the significant problem is addressed below.

Five samples had DMC recoveries below the QC limits. The quantitation limits (QL's) for vinyl chloride were qualified as unusable for samples F1XJ8 and F1WZ1RE because of extremely low (<20%) VDMC1 recoveries.

IV. OTHER AREA OF CONCERN

Field blank sample F1XF8 had excessive chloromethane and 1,2-dichloropropane contamination.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION 6
 HOUSTON BRANCH
 10625 FALLSTONE ROAD
 HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	34837	SITE	Jones Road Ground Water Plume
LABORATORY	<u>SHEALY</u>	NO. OF SAMPLES	20
CONTRACT#	68-W-01-040	MATRIX	water
SDG#	F1WS3	REVIEWER (IF NOT ESB)	ESAT
SOW#	OLC03.2	REVIEWER'S NAME	Ying-Ping Hsieh
ACCT#	6302DD2CJN02	COMPLETION DATE	November 23, 2005
SF#	302DD2CNK		

SAMPLE NO.	F1WS3	F1WZ0	F1XF8	F1X10	F1X21
	F1WS8	F1WZ1	F1XJ8	F1X11	F1X22
	F1WS9	F1WZ2	F1XK0	F1X12	F1X23
	F1WY9	F1XE6	F1X09	F1X13	F1X41

DATA ASSESSMENT SUMMARY

VOA

1. HOLDING TIMES	O
2. GC/MS TUNE/INSTR. PERFORM.	O
3. CALIBRATIONS	O
4. BLANKS	M
5. DMC/SURROGATES	M
6. MATRIX SPIKE/DUPLICATE/LCS	O
7. OTHER QC	N/A
8. INTERNAL STANDARDS	O
9. COMPOUND ID/QUANTITATION	O
10. PERFORMANCE/COMPLETENESS	O
11. OVERALL ASSESSMENT	M

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: Contractual Issues: One method blank had bromoform contamination exceeding the allowable limit. The storage blank failed contractual criteria for DMC recovery.

Technical Issues: Laboratory contamination caused the qualification of bromoform results for eight samples. Five samples had DMC recoveries below the QC limits. The QL's for vinyl chloride were qualified as unusable for samples F1XJ8 and F1WZ1RE because of extremely low (<20%) VDMC1 recoveries.

NOTABLE PERFORMANCE:

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 34837 SDG F1WS3 SITE Jones Road Ground Water Plume LAB SHEALY

The following is a summary of sample qualifiers used by Region 6 in reporting this CLP data:

No.	Acceptable	Provisional	Unacceptable
VOA	10	10	

COMMENTS: This SDG, contracted under SOW OLC03.2, consisted of 1 trip blank, 1 field blank, and 18 water samples for VOA analysis. The OTR/COC Records designated sample F1WZ2 as the laboratory QC sample, sample F1XE6 as a trip blank, and sample F1XF8 as a field blank. The data package arrived on time for the seven-day turnaround requirement but contained the contractually noncompliant items below.

- One method blank had bromoform contamination exceeding the allowable limit.
- The storage blank failed contractual criteria for DMC recovery.

Modified full review was performed on this package as requested by the TDF. The target compounds of concern with the user's desired detection limits in parentheses were vinyl chloride (2 µg/L), trans-1,2-dichloroethene (7 µg/L), cis-1,2-dichloroethene (7 µg/L), and tetrachloroethene (5 µg/L). All samples met the desired detection limit requirements except the QL's for vinyl chloride were qualified as unusable for samples F1XJ8 and F1WZ1RE because of extremely low (<20%) VDMC1 recoveries. Vinyl chloride was not detected in the samples. Various concentrations of the remaining compounds of concern were detected in three samples, but only the tetrachloroethene concentration in sample F1X21 was above the user's desired detection limit.

The target compounds not designated as compounds of concern that were detected at concentrations above the CRQL's in the samples were chlorinated hydrocarbons and laboratory contaminant bromoform. Sample F1WZ1 had unacceptable DMC recoveries. The reanalysis repeated the problem, demonstrating matrix effect. The results from the reanalysis were designated for use to minimize data qualification. Although contractually acceptable, four other samples had some DMC recoveries below the QC limits, causing result qualification.

Some results were qualified for 10 samples because of problems with DMC recovery and/or laboratory contamination. The technical usability of all reported results is indicated by ESAT's final data qualifiers in the Data Summary Table (DST). An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the audit results were reported on the Evidence Inventory Checklist.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 34837 SDG F1WS3 SITE Jones Road Ground Water Plume LAB SHEALY

NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.

Acceptable = No results were qualified for any problem associated with this QC parameter.
Provisional = Some results were qualified because of problems associated with this QC parameter.
Unusable = All results are unusable because of major problems associated with this QC parameter.

1. **Holding Times:** Acceptable. All samples were analyzed within the contractual and technical holding time limits. The pH values indicated that the samples were preserved with acid.

NOTE: Polymerization of vinyl chloride and styrene is likely to occur in acid-preserved samples and could cause low biased results for these analytes.

2. **Tuning/Performance:** Acceptable. BFB analyses met GC/MS tuning criteria.

3. **Calibrations:** Acceptable. All calibrations met contractual criteria. Some target analytes failed technical %D calibration criteria. Data qualification was not required by Region 6 guidelines because these analytes were not detected in the associated samples.

4. **Blanks:** Provisional. Bromoform was detected at a concentration above the CRQL in method blank VBLK10, causing this method blank to fail the contractual criteria for laboratory contamination. Other method blanks met contractual QC criteria and contained bromoform at concentrations below the CRQL. Methylene chloride, carbon disulfide, chloroform, 2-butanone, benzene, 1,2-dichloroethane, and/or toluene were also detected at concentrations below the CRQL's in the method blanks. The storage blank results indicated low level crossover contamination of 1,2-dichloroethane during sample storage. The effects of the laboratory contamination are summarized below.

- The bromoform results above the CRQL for samples F1WS8, F1WS9, F1WZ1RE, F1WZ2, F1XF8, F1XJ8, F1X09, and F1X10 were qualified as undetected ("U"), and the reported concentrations should be used as raised QL's ("M").
- The other laboratory "B"-flagged results below the CRQL's and the 1,2-dichloroethane positive hit results (all below

**ORGANIC QA REVIEW
CONTINUATION PAGE**

CASE 34837 SDG F1WS3 SITE Jones Road Ground Water Plume LAB SHEALY

the CRQL) should be considered undetected and were flagged "U" at the CRQL's on the DST.

Trip/Field Blanks: Trip blank sample F1XE6 did not contain any target compound. Field blank sample F1XF8 contained chloromethane and 1,2-dichloropropane at concentrations above the CRQL's and methyl tert-butyl ether, chloroform, cyclohexane, and cis-1,3-dichloropropene at concentrations below the CRQL's. The chloroform results below the CRQL for samples F1WS3, F1WY9, F1WZ2, F1XK0, F1X10, F1X12, F1X21, and F1X41 should be considered undetected and were flagged "U" at the CRQL on the DST because of possible field contamination.

5. Deuterated Monitoring Compounds (DMC's)/Surrogates:

Provisional. The storage blank had VDMC10 and VDMC12 recoveries below the QC limits, constituting contractual noncompliance. However, the impact on the data usability is not significant. Sample F1WZ1 had more than the contract-allowed number of DMC recoveries outside the QC limits. The reanalysis repeated the problem, demonstrating matrix effect. The results from the reanalysis were designated for use to minimize data qualification. All other samples met contractual DMC recovery criteria although five of them had one or two DMC recoveries outside the QC limits. The effects of outlying DMC recoveries are summarized below.

- The QL's for vinyl chloride were qualified as unusable for samples F1XJ8 and F1WZ1RE because of extremely low (<20%) VDMC1 recoveries.
- The reviewer qualified as estimated and biased low the results for the compounds associated with the following DMC's because of low DMC recoveries:

VDMC3 for samples F1WS8, F1X12, and F1WZ1RE;

VDMC9 for sample F1WZ1RE; and

VDMC10 for samples F1X22 and F1WZ1RE.

The other outlying DMC recoveries were only marginally outside the QC limits, therefore, data qualification was unnecessary in the reviewer's opinion.

6. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS): Acceptable. The MS/MSD results met the QC criteria for precision and percent recovery.

7. Other QC: Not Applicable.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 34837 SDG F1WS3 SITE Jones Road Ground Water Plume LAB SHEALY

8. Internal Standards (IS): Acceptable. IS performance was acceptable for all analyses.
9. Compound Identity (ID)/Quantitation: Acceptable. Target compounds detected at concentrations above the CRQL's in the samples were chlorinated hydrocarbons and laboratory contaminant bromoform. The wrong peak was identified as vinyl chloride-d3 (VDMC1) for sample F1WZ1RE, so the laboratory was contacted for verification. This error had no impact on the data assessment. No other compound ID or quantitation problem was detected.
10. Performance/Completeness: Acceptable. The data package was complete but contained one reporting error. The laboratory was contacted for correction and resubmission (see Resubmission Request). The laboratory response will not impact the DST.
11. Overall Assessment: Results were acceptable for 10 samples. Some results were qualified for samples F1WS8, F1WS9, F1WZ1RE, F1WZ2, F1XF8, F1XJ8, F1X09, F1X10, F1X12, and F1X22 because of problems with DMC recovery and/or laboratory contamination.

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
LABQUAL: Laboratory Qualifier
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
CRQLLBL: Contract Required Quantitation Limit Label
SMPDATE: Sampling Date
VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, and VALDQAL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- N** Identification is tentative.
- J** Estimated value.
- L** Reported concentration is below the CRQL.
- M** Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.
- R** Unusable.
- ^** High biased. Actual concentration may be lower than the concentration reported.
- V** Low biased. Actual concentration may be higher than the concentration reported.
- F+** A false positive exists.
- F-** A false negative exists.
- B** This result may be high biased because of laboratory/field contamination. The reported concentration is above 5X or 10X the concentration reported in the method/field blank.
- UJ** Estimated quantitation limit.
- T** Identification is questionable because of absence of other commonly coexisting pesticides.
- *** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.
- W** The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 34837 SDG No. F1WS3 SDG Nos. To Follow _____ SAS No. _____ Date Rec 11/15/05

EPA Lab ID: <u>SHEALY</u> Lab Location: <u>West Columbia, SC</u> Region: <u>6</u> Audit No.: <u>34837/F1WS3</u> Resubmitted CSF? Yes <u> </u> No <u>X</u> Box No(s): <u>1</u> COMMENTS: Item Description 3. The auditor corrected some starting and ending page number errors on Form DC-2-1. 8. The Airbill #'s were incorrect on all Form DC-1's. The auditor corrected those errors.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">ORIGINALS</th> <th style="width: 10%;">YES</th> <th style="width: 10%;">NO</th> <th style="width: 10%;">N/A</th> </tr> </thead> <tbody> <tr> <td colspan="4">CUSTODY SEALS</td> </tr> <tr> <td>1. Present on package?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2. 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Over for additional comments.

Audited by: Ying-Ping Hsieh

Ying-Ping Hsieh/ ESAT Data Reviewer

Date 11/21/05

Audited by: _____

Date _____

Audited by: _____

Date _____

Signature

Printed Name/Title

DC-2

In Reference To Case No(s):
34837 SDG: F1WS3 (O-0878)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Resubmission Request

Laboratory Name: SHEALY
Lab Contact: Robert Zhu

Region: 6
Regional Contact: Mahmoud El-Feky - EPA
ESAT Reviewer: Ying-Ping Hsieh - ESAT

In reference to data for the following fraction:

VOA

Summary of Questions/Issues:

Sample F1WZ1RE: The peak at RT 1.756 was misidentified as vinyl chloride-d3. Please make needed corrections and submit the revised quantitation report (p.92) and Form 2.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 (OLC03.2, B-36, 2.6.3). Custody seals are required for all such shipments.

Please respond to the above items within 7 days by e-mail to El-Feky.Mahmoud@epamail.epa.gov and by regular mail to:

Mr. Mahmoud El-Feky
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact Mr. El-Feky at (281) 983-2128.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy



Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 34837
DAS No:

R

Region: 6	Date Shipped: 11/7/2005	Chain of Custody Record	
Project Code: 111108	Carrier Name: UPS	Relinquished By	(Date / Time)
Account Code:	Airbill: 1Z66V0692210004184	Received By	(Date / Time)
CERCLIS ID:	Shipped to: Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700	1	Wesley 11/7/05 1730
Spill ID:		2	
Site Name/State: JONES RD GW PLUME FEDERAL SUPEF		3	
Project Leader: BILL HARDMANT		4	
Action:			
Sampling Co: Shaw Environmental, Inc.			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F1WS3	Ground Water	/G	VOA-3.2 (7)	333912 (HCL), 333913 (HCL), 333914 (HCL) (3)	FV11123	S: 11/7/2005 13:20		--
F1WS8	Ground Water	/G	VOA-3.2 (7)	333915 (HCL), 333916 (HCL), 333917 (HCL) (3)	FV11135	S: 11/7/2005 14:10		--
F1WS9	Ground Water	/G	VOA-3.2 (7)	333921 (HCL), 333922 (HCL), 333923 (HCL) (3)	FV11202	S: 11/7/2005 15:30		--
F1WY9	Ground Water	/G	VOA-3.2 (7)	423931 (HCL), 423932 (HCL), 423933 (HCL) (3)	JR11655	S: 11/7/2005 15:20		--
F1WZ0	Ground Water	/G	VOA-3.2 (7)	423925 (HCL), 423926 (HCL), 423927 (HCL) (3)	JR11663	S: 11/7/2005 14:30		--
F1WZ1	Ground Water	/G	VOA-3.2 (7)	423922 (HCL), 423923 (HCL), 423924 (HCL) (3)	JR11707	S: 11/7/2005 13:30		--
F1WZ2	Ground Water	/G	VOA-3.2 (7)	423913 (HCL), 423914 (HCL), 423915 (HCL), 423916 (HCL), 423917 (HCL), 423918 (HCL), 423919 (HCL), 423920 (HCL), 423921 (HCL) (9)	JR11729 1/2	S: 11/7/2005 12:35		--
F1X10	Ground Water	/G	VOA-3.2 (7)	423822 (HCL), 423823 (HCL), 423824 (HCL) (3)	PH11618	S: 11/7/2005 13:02		--
F1X11	Ground Water	/G	VOA-3.2 (7)	423816 (HCL), 423817 (HCL), 423818 (HCL) (3)	PH11619	S: 11/7/2005 11:40		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F1WZ2, F1X14	Additional Sampler Signature(s): <i>Wesley</i> <i>J. Polk</i>	BL	Chain of Custody Seal Number:
Analysis Key: VOA-3.2 = CLP TCL VOCs by OLC03.2	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?	

TR Number: 6-043013577-110705-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 34837

DAS No:

R

Region: 6	Date Shipped: 11/7/2005	Chain of Custody Record		Sampler Signature: <i>WMB</i>
Project Code: 111108	Carrier Name: UPS	Relinquished By (Date / Time)		Received By (Date / Time)
Account Code: CERCLIS ID: Spill ID: Site Name/State: JONES RD GW PLUME FEDERAL SUPERFUND	Airbill: 1Z66V0692210004184 Shipped to: Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700	1 <i>W.M. Wolfel</i> 11/7/05 17:30		
Project Leader: BILL HARDMANT		2		
Action: Sampling Co: Shaw Environmental, Inc.		3		
		4		

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F1X12	Ground Water	/G	VOA-3.2 (7)	423825 (HCL), 423826 (HCL), 423827 (HCL) (3)	PH11626	S: 11/7/2005 13:57		-
F1X13	Ground Water	/G	VOA-3.2 (7)	423828 (HCL), 423829 (HCL), 423830 (HCL) (3)	PH11627	S: 11/7/2005 14:46		-
F1X14	Ground Water	/G	VOA-3.2 (7)	423831 (HCL), 423832 (HCL), 423833 (HCL), 423834 (HCL), 423835 (HCL), 423836 (HCL), 423837 (HCL), 423838 (HCL), 423839 (HCL) (9)	PH11643	S: 11/7/2005 15:37		--
F1X21	Ground Water	/G	VOA-3.2 (7)	333886 (HCL), 333887 (HCL), 333888 (HCL) (3)	TC11022-1	S: 11/7/2005 13:50		-
F1X22	Ground Water	/G	VOA-3.2 (7)	333889 (HCL), 333890 (HCL), 333891 (HCL) (3)	TC11022-2	S: 11/7/2005 13:53		--
F1X23	Ground Water	/G	VOA-3.2 (7)	333892 (HCL), 333893 (HCL), 333894 (HCL) (3)	TC11022-3	S: 11/7/2005 13:56		--
F1X41	Ground Water	/G	VOA-3.2 (7)	333895 (HCL), 333896 (HCL), 333897 (HCL) (3)	TC11118-1	S: 11/7/2005 14:45		-
F1X42	Ground Water	/G	VOA-3.2 (7)	333800 (HCL), 333898 (HCL), 333899 (HCL) (3)	TC11118-2	S: 11/7/2005 14:48		--
F1X43	Ground Water	/G	VOA-3.2 (7)	333801 (HCL), 333802 (HCL), 333803 (HCL) (3)	TC11118-3	S: 11/7/2005 14:51		-

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Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F1WZ2, F1X14	Additional Sampler Signature(s): <i>W.M. Wolfel</i> <i>J.K.</i> <i>T.J.</i> <i>WMB</i>	Chain of Custody Seal Number:
Analysis Key: VOA-3.2 = CLP TCL VOCs by OLC03.2	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: **6-043013577-110705-0002**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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**USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record**

Case No: 34837

DAS No:

R

Region: 6	Date Shipped: 11/7/2005	Chain of Custody Record	
Project Code: 111108	Carrier Name: UPS	Sampler Signature: <i>Wilk</i>	
Account Code:	Airbill: 1Z66V0692210004219	(Date / Time)	
CERCLIS ID:	Shipped to: Shealy Environmental	Received By	(Date / Time)
Spill ID:	106 Vantage Point Drive		
Site Name/State: JONES RD GW PLUME FEDERAL SUPER	Cayce SC 29033		
Project Leader: BILL HARDMANT	(803) 791-9700		
Action:			
Sampling Co: Shaw Environmental, Inc.			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F1X09	Ground Water	/G	VOA-3.2 (7)	423813 (HCL), 423814 (HCL), 423815 (HCL) (3)	PH11611	S: 11/7/2005 10:50		--
F1XE6	Field QC	/G	VOA-3.2 (7)	415997 (HCL), 415998 (HCL), 415999 (HCL) (3)	TRIP BLANK 1	S: 11/7/2005 8:15		Trip Blank
F1XF8	Field QC	/G	VOA-3.2 (7)	372528 (HCL), 372529 (HCL), 372530 (HCL) (3)	FIELD BLANK 1	S: 11/7/2005 8:40		Field Blank
F1XJ8	Ground Water	/G	VOA-3.2 (7)	423907 (HCL), 423908 (HCL), 423909 (HCL) (3)	JR11043A	S: 11/7/2005 9:55		Field Duplicate
F1XK0	Ground Water	/G	VOA-3.2 (7)	333909 (HCL), 333910 (HCL), 333911 (HCL) (3)	FV11118A	S: 11/7/2005 11:40		Field Duplicate

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of

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Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F1X08	Additional Sampler Signature(s): <i>H. W. Wolf</i> <i>T. Wilk</i> <i>B. R.</i>	Chain of Custody Seal Number:
Analysis Key: VOA-3.2 = CLP TCL VOCs by OLC03.2	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-043013577-110705-0001

*R provides preliminary results. Requests for preliminary results will increase analytical costs.

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